

AMENDMENT TO THE CLAIMS:

This listing of claims will replace all prior versions of claims in the application:

LISTING OF CLAIMS:

1. (CURRENTLY AMENDED) A magnetic disk drive system having a disk and a slider, an outer surface of the disk having a low surface microwaviness (Wq) of about 3 angstroms or less at a scale of about 200 microns and higher along the disk surface, and a high surface roughness (Rq) of about 4.5 angstroms or more at a scale along the disk surface of less than about a length of a pad of [[a]] the slider carrying a head for writing to the disk.
2. (CURRENTLY AMENDED) A method system as recited in claim 1, wherein the disk has a high surface roughness of about 4.5 angstroms or more at a scale of less than about 200 microns.
3. (CURRENTLY AMENDED) A method system as recited in claim 1, wherein the disk has a high surface roughness of about 4.5 angstroms or more at a scale of less than about 100 microns.
4. (CURRENTLY AMENDED) A method system as recited in claim 1, wherein the disk has a low surface microwaviness of about 3 angstroms or less at a scale of between about 500 and 1000 microns.
5. (CURRENTLY AMENDED) A method system as recited in claim 1, wherein the disk has a low surface roughness of less than about 4.5 Å at a scale of about 5 microns or less.

6. (CANCELED)
7. (CANCELED)
8. (CURRENTLY AMENDED) A ~~method~~ system as recited in claim 1, wherein the slider flies at a fly height of about 5 nanometers or less from the disk surface.
9. (CURRENTLY AMENDED) A magnetic disk having a ~~low~~ surface microwaviness (Wq) ~~defined by an average distance of about 3 angstroms or less as measured from peak to valley of topographical features of the disk surface at a scale on the disk surface of about 200 microns and higher, and a high surface roughness (Rq) defined by an average distance of about 4.5 angstroms or more as measured from peak to valley of topographical features of the disk surface at a scale along the disk surface of less than or equal to about a length of a pad of a slider carrying a head for writing to the disk 100 microns.~~
10. (CURRENTLY AMENDED) A ~~method~~ disk as recited in claim 9, wherein the disk has a ~~high~~ surface roughness of about 4.5 angstroms or more at a scale of less than about 200 microns.
11. (CURRENTLY AMENDED) A ~~method~~ disk as recited in claim 9, wherein the disk has a ~~high~~ surface roughness of about 4.5 angstroms or more at a scale of less than about 100 microns.
12. (CURRENTLY AMENDED) A ~~method~~ disk as recited in claim 9, wherein the disk has a ~~low~~ surface microwaviness of about 3 angstroms or less at a scale of between about 500 and 1000 microns.

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13. (CURRENTLY AMENDED) A ~~method~~ disk as recited in claim 9, wherein the disk has a low surface roughness of less than about 4.5 angstroms at a scale of about 5 microns or less.
14. (CURRENTLY AMENDED) A ~~method~~ system as recited in claim ~~[[9]]~~ 15, wherein the slider flies at a fly height of about 5 nanometers or less from the disk surface.
15. (CURRENTLY AMENDED) A magnetic storage system, comprising:
a magnetic disk;
at least one head for reading from and writing to the magnetic media;
a slider for supporting the head, the slider having a pad; and
a control unit coupled to the head for controlling operation of the head;
wherein an outer surface of the disk has a ~~low~~ surface microwaviness (Wq) of about 3 angstroms or less at a scale of about 500 microns and higher along the disk surface, and a ~~high~~ surface roughness (Rq) of about 4.5 angstroms or more at a scale of less than about a length of the pad of the slider.